

Ahmed Mahmoud Mohamed Shama

Basic Information:

Unit 9/114 Blamey Crescent, Campbell 2612,
Australian Capital Territory ACT, Australia.

✉ ahmedshama3@gmail.com

Nationality: Egyptian

Date of birth: 1/1/1993

Work Information

Position: PhD student

University of New South Wales
(UNSW Canberra)

☎ +61-0410-780-223(Cell.)

✉ a.shama@unsw.edu.au

Education

PhD in Mechanical Engineering, UNSW Canberra, Australia.

Start Date: 16/09/2019

Expected
March 2023

Research Topic: Irregular wave-induced hydrodynamic loads on marine structure -
Experimental and Numerical Investigation.

Supervisors: Dr Ahmed Swidan – Associate prof. John Young – Prof. Dev Ranmuthugala

Master of Science in Marine Engineering

Arab Academy for Science, Technology and Maritime Transport (AASTMT).

Specialization: CFD in marine application, Subsea production & piping systems.

GPA: 4 /4 (Excellent with honor degree – Head of pre-master class)

Thesis: “A Study of Oil Leakage from Subsea Pipeline using Acoustic Emissions and
Computational Fluid Dynamics.”

Supervisors: Prof. Yehia Abdel-Nasser, Dr Ashraf Sharara, Dr Mohamed El-Shaib

Examiners: Prof. Mohamed Fahmy Shehadeh, Dr. Yasser Abdel-Razek.

November
2017

Bachelor degree in Marine Engineering

Arab Academy for Science, Technology and Maritime Transport (AASTMT).

Specialization: Offshore.

GPA: 3.94 /4 (Excellent with honor degree – Head of class)

Graduation Project: Design Aspects of FPSO floating production offloading storage unit
(Grade A+ Excellent). Supervisor: Prof. Mohamed Abbas Kotb

Accreditation: ABET – IMarEST – ISO - NAQAA

July
2014

Experience

Work

- lecturer assistant, AASTMT, Marine Engineering Department

September 2014 –
September 2019

- Academic Committees

- Accreditation Committees: ABET – ISO – NAQAA - IMAREST.
- Workshops and Laboratories Development Committee.
- Academic Guidance and Scheduling Committee.

Practical Training

- **Ship Manager Trainee (Shipyard)**, Arab Shipbuilding and Repair Yard (ASRY) in Bahrain, Safety department
- **On board ship Semester Training (Cadet): AIDA 4 Ship**
- **Offshore Vessel:** Zafarana platform, floating production, storage and offloading (FPSO)
- **Practical Training:** The holding company for the generation and distribution of electricity

25 Jan. - 9 Feb. 2014

August 2011-March 2012
11 - 17 May 2014

1 July - 1 Sept. 2013

Publications

1. **(Published)**, Experimental study for the leakage detection in sub-sea pipeline by applying acoustic emission technique, 6 pages, IMAM 2017 Conference, 9-11 October **2017, Lisbon, Portugal**.
2. **(Published)**, Review of leakage detection techniques for a subsea pipeline, 9 pages, IMAM 2017 Conference, 9-11 October **2017, Lisbon, Portugal**.
3. **(submitted)**, Water Cylinder Interaction – Numerical Investigation, Australasian Fluid Mechanics AFMC Conference, 6-10 Dec 2020.
4. **(submitted)**, Geometry Effect of the Surface Piercing Cylinders on the Generated Surface Waves, 10th Biennial Submarine Institute of Australia SIA Conference, 16-18 November 2020.

Certificates

Marine Certificates

Third Marine Engineer Certificate of Competency, AASTMT, International Maritime Organization (IMO), October **2014**.

Educational Certificates

- Educational Training for Lecturers (2014).
- **ICDL** International Computer Driver's License.
- Statistical Package for the Social Sciences (**SPSS**).

Short Courses: (Issued May 2016)

- Proficiency in Personal Survival Techniques.
- Proficiency in Survival and rescue Crafts.
- Medical First Aid.
- Advanced Fire prevention and Fire Fighting.
- Proficiency of security awareness training for seafarers with designated security duties.
- Prevention of marine pollution.
- Personal safety and social responsibilities.

Conferences (organization committee)

1. **Industrial & consultancy committee 23rd meeting**, AASTMT, Marine Engineering Department, with title "Sustainable Development of Alexandria as a smart city", Alexandria, Egypt. 26 October, **2015**.
Alexandria
2. **IMOC 2014**, International Marine and Offshore Engineering Conference (AASTMT) Marine Engineering Department in cooperation with Ministry of Transport – Saudi Arabia, (IMarEST), and (UTM), Al Jubail –Saudi Arabia. 3 – 4 September **2014**.
Al-Jubail

Honors and awards

- **UNSW Scholarship**; PhD Tuition Fee Scholarship (TFS) with a research stipend. **2019**
- **AASTMT Scholarship for Master of Science**. **2014**
- **Top of Graduation Class**, Marine Engineering, AASTMT. **2014**
- Egyptian Engineers **Syndicate** award; the "Best Marine Project in the year" **2014**
- **Top of Marine Engineering Class**, AASTMT. **f. 2014, Sp.2013**
f.2013, sp.2012
- **Highest** Current Semester GPA "4/4", AIDA-IV Ship Training, AASTMT, **Fall 2012**
- Egyptian Ministry of Transportation **scholarship for BSc**. **2009**
- **Third** on South Sinai governorate, Secondary school, Mathematics Specialization. **2009**

Skills

Language

- Arabic (Mother tongue)
- English (IELTS - **overall** band scale **6.5**, with no individual band less than 6.0)

Committee Members

- **SNAME** "Society of Naval Architects & Marine Engineers" Membership, **2013- Present**.
- **RINA** "The Royal Institution of Naval Architects", **ID: 00426259, 2019- Present**.

IT Skills

- MS Windows & Office (ICDL certificate, Nov. 2015) and Endnote.
- **Programming Languages**: MATLAB, C++.
- **CFD Packages**: Gambit, Ansys Workbench (Fluent), Open FOAM, STAR-CCM+.
- **3D Modeling**: Rhinoceros, AutoCAD, Solid Edge (Simulink).

References available upon request